Bruhat Bengaluru Mahanagara Palike

Name of Work: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

Sub estimate 4: Antique ornamental Electrical lighting Poles and Illumination Works

S.No.	Description of Work /Specification	Unit	Qty	Rate	Amount
1	Supplying and fixing of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, 4 core 16 sqmm Iteam rate Iteam rate (PWD electrical S.R material list page: XVIII SL/NO 522)				
	4 core 16 sqmm (PWD Ele SR book Pg 40,Item 6.4.4)				
	Cable for Electrification through out the proposed length + for all the 20 electircal poles. (120+8X20+20=300)	Rm	300		
	Basic rate			150.0	
	Total		**300.00**	**150.00**	45000
2	Supplying heavy gague PVC conduit pipe 20/25/32 mm dia 2mm thick confirming to IS 2509 with suitable size bends metal/pvc junction boxes, adhesive paste etc, and running before concreting and slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fisg wire wherever necessary.				
	32mm dia, 2mm thick, (PWD Ele SR book Pg 2,Item 1.2.3)				
	PVC Conduit pipe for cable for Electrification through out the proposed length (120+8X20+20=300)	Rm	300.00		
	Basic rate			83.0	
	Total		**300.00**	**83.00**	24900
3	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50 mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. (PWD electrical S.R material list page no : 67 SL/NO 12.9)				
	Focus light at 10 location 2 No's each				
	LED Flood light 120 W (at Theme Statues -2 no,)	Each	20	8800	
	Total		**20.00**	**8800.00**	176000
4	Supplying and fixing of Group A, regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB'S single phase/ 3 phase / single door with powder coated painting made out of SWG MS enclosute				
	PWD Ele SR book Pg 28,item 5.18.4,12 way SP & N				
	at 2 loctions for controlling the LED lighting		10.00		
	Basic rate			1210	

	Total		**10.00**	**1210.00**	12100
5	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing meterials and "C" type curve, Indiator ON/OFF energy cross -3 with as required confirming to IEC 60898 Iteam rate As per approved Data rate				
	AMPS DP, Pg 27,item 6.16.3,5-32				
	for all the electrical Poles		20.00		
	Basic rate			909	
	Total		**20.00**	**909.00**	18180
6	Providng **Antique decorative cast iron Electrical Pole** Fabricating, supplying and erection of 7 Mtrs long hot dip IS 2062 for base plate withdoor opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom 350 mm, top 250 mm with 3mm thick, suitable base plate and 4 Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.as per the architectural Drawing and specification as per the directuins of Engineerin Charge..... Iteam rate **As per approved Data rate**				
	Electrical poles at 5 Locations	no.	7.00		
	Basic rate			156000	
	Total		**7.00**	**156000**	1092000
7	Providing and fixing of LED 30W lighting is indiacted in drawings including cost of labour etc, complete as per direction of Enginner in charge (inclusive of all taxes). Ornamental grill for Hand Railing : PWD electrical S.R iteam no-12.8.2 page no-67				
	considering 5 Lights per Electrical pole at 20 Locations	no	100.00		
	Basic rate			3360	
	Total		**100.00**	**3360**	336000
				Sub Total Amount	1704180
				ADD 12% GST	204502
				Grand Total	**1908682**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019, SE-RDED approved data Rate and Issu ed Rates.

Assistant Engineer
BBMP

Assistant ExecutiveEngineer
BBMP

Executive Engineer
BBMP

Bruhat Bengaluru Mahanagara Palike

Name of Work: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

	Sub estimate 5: Civil Works for Antique Kannada alphanebts and numbers								
S.No.	Description of Work /Specification	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note :Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means KBS Pg No 6, Item No 2.1								
	Earthwork Excavation	Cum	1	120	0.7	0.5	42.00		
	Basic rate							249.00	
	Area weightage 6%							14.94	
	Total						**42.00**	**263.94**	**11085**
2	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100 mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
	Soling Below ground	Cum	1	120	0.7	0.2	16.80		
	Basic rate							2429.00	
	Area weightage 6%							145.74	
	Total						16.80	**2574.74**	**43256**
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 (M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	PCC Below ground	Cum	1	120	0.7	0.15	12.60		
	Basic rate							5102.0	
	Area weightage 6%							306.1	
	Total						**12.60**	**5408.12**	**68142**
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14 Item No. 4.11								
	Below ground	cum	1	120	0.4	0.35	16.80		
	for Curve shapes at 6 locations	cum	6	6	0.4	0.8	11.52		
	Plinth throughout	Cum	1	120	0.4	0.1	4.80		
	coping concrete at curved portion	Cum	6	6	0.4	0.1	1.44		
	Basic rate							5659.0	
	Area weightage 6%							339.5	
	Total						**34.56**	**5998.54**	**207310**
5	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., Removal of form Work etc.., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.5, Pg No 16,Item No 4.32								
	Plinth through	sqm	2	120		0.45	108.00		
	for coping concrete at curved portion	sqm	12	6		0.1	7.20		
	Basic rate							456.0	
	Area weightage 6%							27.4	
	Total						**115.20**	**483.36**	**55683**

6	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10								
	Filling Available of Excavated Earth								
	below ground	Cum					12.60		
	Basic rate							201.0	
	Area weightage 6%							12.1	
	Total						12.60	**213.1**	**2685**
7	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136,Item No17.4								
	Excavated Earth	Cum					42.00		
	Filling Available of Excavated Earth						12.60		
	Loading and unloading item no.17.1 KSRRB M 100-II	Cum						57.00	
	Basic rate for haulage of materials as per item No. 17.4 KSRRB : M 100 - 4.1	t.km	For surface roads exluding Basic rate loading & unloading					2.00	
	Average Weight of earth (1.28 Tonne/cum.)	For 2 Kms =2x1.28x2						5.12	
	Basic rate							62.12	
	Area weightage 6%							3.73	
	Total						**54.60**	**65.85**	**3595**
8	14.58. Providing and fixing granite flooring in combination of 19 mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS 14.58 , Pg No 111,Item No 14.58								
	Vertical platform through wall	Sqm	2	120		0.425	102.00		
	Vertical eleveation for Curve Shape	Sqm	6	6		0.8	28.80		
	Horizontal	Sqm	1	120		0.4	48.00		
	for Curve shapes at 6 locations	Sqm	6	2		0.4	4.80		
	Basic rate							3474	
	Area weightage 6%							208.4	
	Total						**183.60**	**3682.44**	**676096**
9	14.55, Providing full nosing for 20 mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS No.14.55, Pg No.111								
	Bull nosing								
	throughout platform	m	2	120			240.00		
	s-shape elevation	m	12	7			84.00		
	Basic rate							**270**	
	Area weightage 6%							16.2	
	Total						**324.00**	**286.20**	**92729**
10	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, and pointed with cement mortar 1:3 over existing cement concrete bed , including cost of materials, labour, curing complete as per specifications. Specification No. KBS 14.26 Pg No.103								
	verticle elevated Fine dressed granite stone slabs 40 mm thic, 5 numbers @ 6 locations	Sqm	30	1.8	0.23		12.42		
	Basic rate							3241	
	Area weightage 6%							194.5	
	Total						**12.42**	**3435.46**	**42668**

11	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50 mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20 m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.. Pg No. 45 Item No. 7.38								
	SS at Curve 6 curve Locations wuth 3 horizontal rows for 3 m each	sqm	18	3			54.00		
	Basic rate							6021	
	Area weightage 6%							361.3	
	Total						**54.00**	**6382.26**	**344642**
								Sub Total Amount	**1547891**
								ADD 12% GST	**185747**
								Grand Total=1	**1733638**
12	Providing Granite holes of 50 mm dia for fine dressed granite stone slabs 40 mm thick (As per Approved data Rate)								
	0	m	18	6			108.00		
								120	
	Total						**108.00**	**120.00**	**12960**
13	Providing and laying fine dressed granite stone pillar of 300 mm dia nd 2.5 M height including cost of materials, labour, curing complete as per specifications. **(As per approved Data rate)**								
	Round pillar 300 mm dia and 2.5 meter height with base palste as per drawing	No's	6				6.00		
								11000	
	Total						**6.00**	**11000.00**	**66000**
14	Providing and laying fine dressed granite stone pillar of 300 mm dia nd including cost of materials, labour, curing complete as per specifications. **(As per approved Data rate)**								
	Circular Solid stone of dia 400 mm	m	6				6.00		
								5500	
	Total						**6.00**	**5500.00**	**33000**
								Grand Total-2	**111960**
								Grand Total -1 & 2	**1845598**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019, SE-RDED approved Rate and Issued Rates.

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Name of Work: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

Sub estimate 6: Estimate for Civil Works for Elephant at Attur junction

S.No.	Description of Work /Specification	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note :Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means KBS Pg No 6, Item No 2.1								
1	**Earthwork Excavation**								
	Below ground Level	Cum	1	4.5	2.5	1.1	12.38		
	All-Around Plat-form Arc length = 13.636 , H-length 8.48 +8.48 = 30.596	Cum	1	30.596	0.2	0.2	1.22		
	back ground wall	Cum	1	8.68	0.6	1.2	6.25		
	Basic rate							249.00	
	Area weightage 6%							14.94	
	Total						**19.85**	**263.94**	**5239**
	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100 mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
2	Soling Below ground Level	Cum	1	4.3	2.3	0.2	1.98		
	for back ground wall		1	8.68	0.6	0.2	1.04		
	Basic rate							2429.00	
	Area weightage 6%							145.74	
	Total						3.02	**2574.74**	7775
	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	PCC								
3	**Below ground Level**	Cum	1	4	2	0.15	1.20		
	Laying of Granite	Cum	1	60	0.9	0.15	8.10		
	All-Around Plat-form Arc length = 13.636 , H-length 8.48 +8.48 = 30.596		1	30.596	0.2	0.1	0.61		
	for back ground wall		1	8.68	0.6	0.15	0.78		
	Basic rate							5102.0	
	Area weightage 6%							306.1	
	Total						**10.69**	**5408.12**	**57830**
	KSRB 5.4.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone Masonary in superstructure with cement mortar , edge of stones chistle dressed in courses not less than 15 cms high, bond stones at two 2M. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.4.3, Pg No 25, Item No 5.12								
4	1st Step	Cum	1	8.68	0.6	0.3	1.56		
	2nd Step	Cum	1	8.68	0.6	0.4	2.08		
	Basic rate							5362.0	
	Area weightage 6%							321.7	
	Total						**3.65**	**5683.7**	**20721**
	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14 Item No. 4.11								

	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400 X 200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.14, Pg No. 27 Item No. 5.26.1								
11	For All-Around Plat-form Arc length = 13.636 , H-length 8.48 +8.48 = 30.596	Sqm	1	30.596		0.6	18.36		
	Basic rate							912.0	
	Area weightage 6%							54.7	
	Total						**18.36**	**966.7**	**17747**
12	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm Specification No. KBS 14.47.1 Pg No.109								
	Around Plat-form	Sqm	1	8.65	6.68		57.8		
	All-Around Plateform		2	30.596	0.4		24.48	2739	
	Area weightage 6%							164.3	
	Total						82.3	**2903.34**	**238825**
13	KSRRB M300-2.2. Grassing with Doobs grass KSRRB M300- 2.1. Grassing with Doobs grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for moving including supplying good earth if needed complete as per specifications. MORTH Specification No. 307 ii) In rows 7.5 cm apart in either direction ,item No 19.79, Page:148 PWD SR 2018-19								
	Around Plat-form	sqm	1	29.54			29.54		
	Basic rate							85.0	
	Area weightage 6%							5.1	
	Total						**29.54**	**90.1**	**2662**
14	KSRB 6-2.3 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2, page no.29,item no 6.2 PWD Sr 2018-19								
	background of elephant	Cum		8.68	0.23	3.4	6.79		
	Basic rate							6709	
	Area weightage 6%							403	
	Total						**6.79**	**7112**	**48271**
15	KSRB15-1.6 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KBS No.15.1.6, Pg No. 115 Item No. 15.6								
	Back ground wall (20+10+10)	sqm	1	18.05	1	3.6	64.98		
	Basic rate							204	
	Area weightage 6%							12.2	
	Total						**64.98**	**216.24**	**14051**
16	KSRB 15-16.1 Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer item No.15.53.2 Page No. SR 2018-19								
	WALL painting								
	For Backgroundwall above stage upto 3m (both sides)	sqm	1	18.05	1	3.6	64.98		
	Basic rate							102	
	Area weightage 6%							6.1	
	Total						**64.98**	**108.12**	**7026**
								Sub Total Amount	**942821**
								ADD 12% GST	**113138**
								Grand Total	**1055959**

For Plat-form	Cum	1	3.65	1.7	2.25	13.96		
Plinth beam For Back Ground wall	Cum	1	8.68	0.23	0.15	0.30		
In B/w Concerte in the wall	Cum	4	8.68	0.23	0.05	0.40		
Basic rate							5659.0	
Area weightage 6%							339.5	
Total						**14.66**	**5998.54**	**87939**
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - Pg No. 18 TMT bars Fe 500								
6 Considering 70 kg/Cum of concrete	tonne	1		14.66		1.03		
Basic rate							70966	
Area weightage 6%							4258	
Total						**1.03**	**75224**	**77195**
KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., Removal of form Work etc.., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.5, Pg No 16,Item No 4.32								
For all round Plat-form	sqm	1	10.36		2.25	23.31		
7 Plinth beam For Back Ground wall	Cum	1	8.68		0.15	1.30		
Copping Concerte	Cum	8	8.68		0.05	3.47		
Basic rate							456.0	
Area weightage 6%							27.4	
Total						**28.08**	**483.36**	**13575**
14.58. Providing and fixing granite flooring in combination of 19 mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS 14.58 , Pg No 111,Item No 14.58								
8								
For all Round Plat-form-Vertical Cladding	Sqm	1	10.36		1.5	15.54		
Top Platform-Horizontal Cladding	Sqm	1	3.65	1.7		6.21		
all-Around plat-form top		1	30.596	0.22		6.73		
							3474	
Area weightage 6%							208.4	
Total						**28.48**	**3682.44**	**104862**
14.55. Providing full nosing for 20 mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS No.14.55, Pg No.111								
For all round Platform	m	1	10.7			10.70		
9 For Vertical Cladding- four corners	m	4	1.5			6.00		
							270	
Area weightage 6%							16.2	
Total						**16.70**	**286.20**	**4780**
Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.. Pg No. 45 Item No. 7.38								
10								
For All-Around Plat-form Arc length = 13.636 , H-length 8.48 +8.48 = 30.596	Sqm	1	30.596		1.2	36.72		
							6021	
Area weightage 6%							361.3	
Total						36.72	**6382.26**	**234326**

Sl. No.	Description	Unit	Nos	L	B	D	Quantity	Rate	Amount (Rs)
	Electrical Works (Lighting)								
17	Supplying heavy gauge PVC conduit pipe 40mm dia 2.5mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. item no-3.4,Item 3.4.1,Item 3.4.2 page no-2, PWD SR 2019-20								
	40 mm dia, 2.5 mm thick	Rm	20					105	**2100**
18	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50 mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS10322/ IEC 61547, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. (PWD electrical S.R material list page no : 67 SL/NO 12.9)								
	LED Flood light 70W	Each	4					6800	**27200**
19	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be 1mm flush mounted after due groove cutting in brick /stone/C.C wall .. item no-1.2,Item 1.2.2,Item 1.2.3 page no-2, PWD SR 2018-19.								
	4 - 5 Way	Each	4					105	**420**
20	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/switches as per IS 1293 and IS 3854.,Item 3.6.11 page no-10, PWD SR 2018-19.								
	16Amps Combined switch and socket with indication	No	1					162	**162**
21	Supplying and fixing of Group A, regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB'S single phase/ 3 phase / single door with powder coated painting made out of SWG MS enclosute. item no-5.18,Item5.18.4 page no-27,28 PWD SR 2018-19.								
	12 way SP & N	Nos	1					1210	**1210**
22	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing meterials and "C" type curve, Indiator ON/OFF energy cross -3 with as required confirming to IEC 60898 item no-5.17,Item 5.17.4. page no-27, PWD SR 2018-19.								
	6-32 AMPS DP	Nos	1					909	**909**
23	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements. item no-2.3,Item2.3.4 page no-5,6 PWD SR 2018-19.								
	4sqmm	Rm	25					45	**1125**
24	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.item no-5.18,page no-27, PWD SR 2019-20.								
	Double door, 12Way SP &N	each	1					1800	**1800**
25	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, item no-6.4.2, page no-40, PWD SR 2019-20.								

	4 core 10 sqmm	Rm	50					130	**6500**
26	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150 mm all-round the cable item 6.7,page no- 41 SR 2018-19.								
		Mtr	45					100	**4500**
27	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen/ insulating compound complete with terminals,lamps, bolts, nuts and washers etc. item 6.10.5,page no- 42SR 2018-19.								
	50 sqmm	each	1					618	**618**
								Sub total	**46544**
								12%GST	**5585.28**
								Sub Total	**52129.28**
								Grand Total Sub-1 & Sub-2	**1108088**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2019-20, SE-RDED approved Rate and Issued Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Bruhat Bengaluru Mahanagara Palike

Name of Work: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

Sub estimate 7: Estimate for Civil Works for Bull & Horse at Sawarkar Circle

Sl No.	Description of Work /Specification	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note :Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means KBS Pg No 6, Item No 2.1								
1	**Earthwork Excavation**								
	Below ground Level bull	Cum	1	4	2.7	1.1	11.88		
	Below ground Level Horse		1	4	2.3	1.1	10.12		
	All-Around Plat-form Arc length = 11 X 2 , H-length 10 +10 = 42 M		1	42	0.2	0.2	1.68		
	Basic rate							249.00	
	Area weightage 6%							14.94	
	Total						**23.68**	**263.94**	**6250**
	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100 mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
2	Soiling Below ground Level for Bull	Cum	1	4	2.4	0.2	1.92		
	Soiling Below ground Level for Horse		1	3.85	2	0.2	1.54		
	Basic rate							2429.00	
	Area weightage 6%							145.74	
	Total						3.46	**2574.74**	**8909**
	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	PCC								
	Below ground Level for bull	Cum	1	3.7	2.1	0.15	1.17		
	Below ground Level for horse	Cum	1	3.55	1.7	0.15	0.91		
3	**Laying of Granite**	Cum	1	105.2		0.15	15.78		
	All-Around Plateform Arc length = 11 X 2 , H-length 10 +10 = 42 M		1	42	0.2	0.15	1.26		
	Basic rate							5102.0	
	Area weightage 6%							306.1	
	Total						**19.11**	**5408.12**	**103353**
	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14 Item No. 4.11								
4	For Platform for bull	Cum	1	3.4	1.8	2.25	13.77		
	For Platform for Horse		1	3.25	1.4	2.25	10.24		
	Basic rate							5659.0	
	Area weightage 6%							339.5	
	Total						**24.01**	**5998.54**	**144010**

5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - Pg No. 18 TMT bars Fe 500								
	Considering 70 kg/Cum of concrete	tonne	1		24.01		1.68		
	Basic rate							70966	
	Area weightage 6%							4258	
	Total						**1.68**	**75224**	**126416**
6	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., Removal of form Work etc.., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.5, Pg No 16,Item No 4.32								
	For Plat-form bull	sqm	1	9.8		2.25	22.05		
	For Plat-form Horse		1	9.3		2.25	20.93		
	Basic rate							456.0	
	Area weightage 6%							27.4	
	Total						**42.98**	**483.36**	**20772**
7	14.58. Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS 14.58 , Pg No 111,Item No 14.58								
	For all round Platform-Vertical Cladding for bull	Sqm	1	9.8		1.5	14.70		
	Top Platform-Horizontal Cladding for bull	Sqm	1	3.1	1.8		5.58		
	For all round Platform-Vertical Cladding for Horse	Sqm	1	9.3		1.5	13.95		
	Top Platform-Horizontal Cladding for Horse	Sqm	1	3.25	1.4		4.55		
	All-Around Plateform Arc length = 11 X 2 , H-length 10 +10 = 42 M	Sqm	1	43.6	0.21		9.15		
								3474	
	Area weightage 6%							208.4	
	Total						**47.93**	**3682.44**	**176491**
8	14.55, Providing full nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS No.14.55, Pg No.111								
	For all round Platform for bull	Rm	1	9.8			9.80		
	For Vertical Cladding- four corners for bull	Rm	4	1.5			6.00		
	For all round Platform for Horse		1	9.30			9.30		
	For Vertical Cladding- four corners		4	1.50			6.00	**270**	
	Area weightage 6%							16.2	
	Total						**31.10**	**286.20**	**8901**
9	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.. Pg No. 45 Item No. 7.38								
	For All-Around Plat-form Arc length = 11 X 2 , H-length 10 +10 = 42 M	Sqm	1	43.5	1.2		52.20		
								6021	
	Area weightage 6%							361.3	
	Total						52.20	**6382.26**	**333154**
10	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400 X 200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.14, Pg No. 27 Item No. 5.26.1								

	Around the sculpture	Sqm	1	43.5		0.6	26.10		
	Basic rate							912.0	
	Area weightage 6%							54.7	
	Total						**26.10**	**966.7**	**25231**
11	KBS 14.47.1 Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm Specification No. KBS 14.47.1 Pg No.109								
	Around Platform	Sqm	2	43		0.4	34.40		
	All around plat-Form	Sqm		101.42			105.29		
								2739	
	Area weightage 6%							164.3	
	Total						139.69	**2903.34**	**405568**
								Sub Total Amount	**1359054**
								ADD 12% GST	**163087**
								Grand Total	**1522141**

Sl. No.	Description	Unit	Nos	L	B	D	Quantity	Rate	Amount (Rs)
	Electrical Works (Lighting)								
12	Supplying heavy gauge PVC conduit pipe 40mm dia 2.5mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. item no-3.4,Item 3.4.1,Item 3.4.2 page no-2, PWD SR 2019-20								
	40 mm dia, 2.5 mm thick	Rm	20					105	**2100**
13	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection-Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50 mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. (PWD electrical S.R material list page no : 67 SL/NO 12.9)								
	LED Flood light 70W	Each	8					6800	**54400**
14	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall .. item no-1.2,Item 1.2.2,Item 1.2.3 page no-2, PWD SR 2018-19.								
	4 - 5 Way	Each	4					105	**420**
15	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854.,Item 3.6.11 page no-10, PWD SR 2018-19.								
	16Amps Combined switch and socket with indication	No	1					162	**162**
16	Supplying and fixing of Group A, regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB'S single phase/ 3 phase / single door with powder coated painting made out of SWG MS enclosute. item no-5.18,Item5.18.4 page no-27,28 PWD SR 2018-19.								
	12 way SP & N	Nos	1					1210	**1210**

17	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing meterials and "C" type curve, Indiator ON/OFF energy cross -3 with as required confirming to IEC 60898 item no-5.17,Item 5.17.4. page no-27, PWD SR 2018-19.								
	6-32 AMPS DP	Nos	1					909	**909**
18	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements. item no-2.3,Item2.3.4 page no-5,6 PWD SR 2018-19.								
	4sqmm	Rm	25					45	**1125**
19	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.item no-5.18,page no-27, PWD SR 2019-20.								
	Double door, 12Way SP &N	each	1					1800	**1800**
20	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, item no-6.4.2, page no-40, PWD SR 2019-20.								
	4 core 10 sqmm	Rm	50					130	**6500**
21	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150 mm all-round the cable item 6.7,page no- 41 SR 2018-19.								
		Mtr	45					100	**4500**
22	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen/ insulating compound complete with terminals,lamps, bolts, nuts and washers etc. item 6.10.5,page no- 42SR 2018-19.								
	50 sqmm	each	1					618	**618**
								Sub total	**73744**
								12%GST	**8849.28**
								Sub Total	**82593.28**
								Grand Total Sub-1 & Sub-2	**1604734**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20,PRED 2019-20, SE-RDED approved Rate

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Bruhat Bengaluru Mahanagara Palike

Name of Work: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

Sub estimate 8: Estimate for Civil Works for Auto , Car & Tractor at bwssb junction

S.No.	Description of Work /Specification	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note :Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means KBS Pg No 6, Item No 2.1								
	Earthwork Excavation								
1	Below ground Level for Auto	Cum	1	4.08	2.8	0.65	7.43		
	Below ground Level for tractor	Cum	1	4.56	3.19	0.65	9.46		
	Below ground Level for car	Cum	1	6.39	3.19	0.65	13.25		
	Front side of Sculptures	Cum	1	20	0.2	0.2	0.80		
	Back ground wall (20+10+10)	Cum	1	40	0.6	1.5	36.00		
	For kerb stones	Cum	2	40	0.2	0.3	4.8		
	Basic rate							249.00	
	Area weightage 6%							14.94	
	Total						**71.73**	**263.94**	**18933**
	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100 mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
	Soling Below ground Level auto	Cum	1	3.78	2.88	0.2	2.18		
2	Soling Below ground Level tractor	Cum	1	4.26	3.19	0.2	2.72		
	Soling Below ground Level car	Cum	1	6.09	3.19	0.2	3.89		
	Around the sculpture		1	20	0.2	0.2	0.80		
	Back ground wall (20+10+10)	Cum	1	40	0.6	0.2	4.80		
	Basic rate							2429.00	
	Area weightage 6%							145.74	
	Total						14.38	**2574.74**	**37026**
	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No 13 Item No 4.3								
	PCC								
	Below ground Level auto	Cum	1	3.48	2.35	0.15	1.23		
3	**Below ground Level tractor**	Cum	1	3.96	2.66	0.15	1.58		
	Below ground Level car	Cum	1	5.79	2.66	0.15	2.31		
	Laying of Granite	Cum	1	174.5		0.15	26.18		
	Back ground wall (20+10+10)	Cum	1	40	0.6	0.15	3.60		
	Front side of Sculptures	Cum	1	20	0.2	0.15	0.60		
	Basic rate							5102.0	
	Area weightage 6%							306.1	
	Total						**35.49**	**5408.12**	**191945**
	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14 Item No. 4.11								
4	For Platform Auto	Cum	1	3.18	1.83	2.25	13.09		
	For Platform tractor	Cum	1	3.66	2.13	2.25	17.54		
	For Platform Car	Cum	1	5.49	2.14	2.23	26.14		
	plinth for back ground Wall	Cum	1	40	0.23	0.15	1.38		

	Coping Concrete	Cum	1	40	0.23	0.05	0.46		
	Basic rate							5659.0	
	Area weightage 6%							339.5	
	Total						**58.61**	**5998.54**	**351603**
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - Pg No. 18 TMT bars Fe 500								
	Considering 70 kg/Cum of concrete	tonne	1		58.61		4.10		
	Basic rate							70966	
	Area weightage 6%							4258	
	Total						**4.10**	**75223.96**	**308647**
6	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., Removal of form Work etc.., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.5, Pg No 16,Item No 4.32								
	For all round Platform Auto	sqm	1	10.02		2.25	22.54		
	For all round Platform Tractor	sqm	1	11.58		2.25	26.05		
	For all round Platform car	sqm	1	15.26		2.25	34.33		
	plinth for back ground Wall	Cum	2	40		0.15	12.00		
	Coping Concrete	Cum	2	40		0.05	4.00		
	Basic rate							456.0	
	Area weightage 6%							27.4	
	Total						**98.92**	**483.36**	**47814**
7	14.58. Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS 14.58 , Pg No 111,Item No 14.58								
	For all round Platform-Vertical Cladding Auto	Sqm	1	10.02		1.5	10.02		
	Top Platform-Horizontal Cladding Auto	Sqm	1	3.2	1.83		5.86		
	For all round Platform-Vertical Cladding Tractor	Sqm	1	12		1.5	18.00		
	Top Platform-Horizontal Cladding Tractor	Sqm	1	3.66	2.13		7.80		
	For all round Platform-Vertical Cladding Car	Sqm	1	15		1.5	22.50		
	Top Platform-Horizontal Cladding Car	Sqm		5.49	2.14		11.75		
	Top of surround the boundary wall		1	20.00		0.20	4.00	3476	
	Area weightage 6%							208.6	
	Total						**79.92**	**3684.56**	**294472**
8	14.55, Providing full nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS No.14.55, Pg No.111								
	For all round Platform Auto	m	1	10.02			10.02		
	For Vertical Cladding- four corners Auto	m	4	1.5			6.00		
	For all round Platform tractor	m	1	12			12.00		
	For Vertical Cladding- four corners tractor	m	4	1.5			6.00		
	For all round Platform car	m	1	15			15.00		
	For Vertical Cladding- four corners car	m	4	1.5			6.00		
								270	
	Area weightage 6%							16.2	
	Total						**55.02**	**286.20**	**15747**
9	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.. Pg No. 45 Item No. 7.38								
	For all round Platform-safety	Sqm	1	20		1.2	24.00		

								6021	
Area weightage 6%								361.3	
Total							24.00	**6382.26**	**153174**
	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400 X 200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.14, Pg No. 27 Item No. 5.26.1								
10	All-Around the sculpture	Sqm	1	20		0.6	12.00		
	Back ground wall (20+10+10)	Cum	1	40		1.8	72.00		
	Basic rate							912.0	
	Area weightage 6%							54.7	
	Total						**84.00**	**966.7**	**81204**
	KSRB15-1.6 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. KBS No.15.1.6, Pg No. 115 Item No. 15.6								
11	Back ground wall (20+10+10)	Cum	2	40		1.8	144.00		
	Basic rate							204	
	Area weightage 6%							12.2	
	Total						**144.00**	**216.24**	**31139**
	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer								
12	item 15.51.2, Page no. 119 PWD SR 2018-19								
	painting stone all along the path way on both sides	Sqm	2	80.6			1.8		
	Basic rate							87.0	
	Area weightage 6%							5.2	
	Total						**1.8**	**92.2**	**166**
	KSRB 15-16.1 Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer item No.15.53.2 Page No. SR 2018-19								
13									
	WALL painting	sqm	1	80.6		1.8	145.08		
	Basic rate							102	
	Area weightage 6%							6.1	
	Total						**145.08**	**108.12**	**15686**
	KSRB 5.4.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone Masonary in superstructure with cement mortar , edge of stones chistle dressed in courses not less than 15 cms high, bond stones at two 2M. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.4.3, Pg No 25, Item No 5.12								
14	1st Step	Cum	1	60	0.6	0.4	14.40		
	2nd Step	Cum	1	60	0.6	0.6	21.60		
	Basic rate							5362.0	
	Area weightage 6%							321.7	
	Total						**36.00**	**5683.7**	**204614**
	KBS 14.47.1 Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm Specification No. KBS 14.47.1 Pg No.109								
15	For auto car Tractor cadd Area	Sqm	1	174			174.00		
	Around the sculpture	Sqm	2	40.00	0.40		80.00		
	Around the sculpture	Sqm	2	20.00	0.40		40.00	2739	
			2	43.56	0.40		87.12		
	Area weightage 6%							164.3	

	Total						381.12	2903.34	1106521
16	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60 mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS								
	item No 14.6 , Page -103 PWD SR 2018-19								
	For Internal Pathways	sqm	1	40	3.65		146		
	Basic rate							1053	
	Area weightage 6%							63.18	
	Total						**146**	**1116.2**	**162962.28**
17	KSRRB M1200-48.2. Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm high in M-20 grade PCC on M-10 grade foundation 150 mm thick, foundation having 50 mm projection beyond kerb stone, kerb stone laid with kerb lying machine, foundation concrete laid manually, all complete as per Clause 400.8 complete as per spcifications. B. Using Concrete Batching and Mixing Plant MORTH Specification No.408item No 26.127, Page no.217 PWD SR 2018-19								
	Kerb stone all along the path way on both sides	M	2	40			80		
	Basic rate							276	
	Area weightage 6%							17	
	Total						**80.0**	**293**	**23405**
								Sub Total Amount	**3045057**
								ADD 12% GST	**365407**
								Grand Total	**3410464**
18	Providing and laying For elevation using white sadarhalli stone with stone chiesing and fine dressed granite stone slabs 100 mm thick with cement mortar 1:3 including cost of materials, labour, curing complete as per specifications. (AS per Appoved Data rate incluing GST)								
	Elevation Stone for aesthitic purpose							4850	291000
	@ TOP OF WALL (1X0.3X0.1) granite sixe	**No's**	60						**291000**
	Sub Total 2								**3701464**
	Grand Total (Sub total 1+sub total 2)								

Sl. No.	Description	Unit	Nos	L	B	D	Quantity	Rate	Amount (Rs)
	Electrical Works (Lighting)								
19	Supplying heavy gauge PVC conduit pipe 40mm dia 2.5mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. item no-3.4,Item 3.4.1,Item 3.4.2 page no-2, PWD SR 2019-20								
	40 mm dia, 2.5 mm thick	Rm	20					105	**2100**
20	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation.Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50 mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. (PWD electrical S.R material list page no : 67 SL/NO 12.9)								
	LED Flood light 70W	Each	12					6800	**81600**
21	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall .. item no-1.2,Item 1.2.2,Item 1.2.3 page no-2, PWD SR 2018-19.								

	4 - 5 Way	Each	4					105	**420**
22	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854.,Item 3.6.11 page no-10, PWD SR 2018-19.								
	16Amps Combined switch and socket with indication	No	1					162	**162**
23	Supplying and fixing of Group A, regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB'S single phase/ 3 phase / single door with powder coated painting made out of SWG MS enclosute. item no-5.18,Item5.18.4 page no-27,28 PWD SR 2018-19.								
	12 way SP & N	Nos	1					1210	**1210**
24	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing meterials and "C" type curve, Indiator ON/OFF energy cross -3 with as required confirming to IEC 60898 item no-5.17,Item 5.17.4. page no-27, PWD SR 2018-19.								
	6-32 AMPS DP	Nos	1					909	**909**
25	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements. item no-2.3,Item2.3.4 page no-5,6 PWD SR 2018-19.								
	4sqmm	Rm	25					45	**1125**
26	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.item no-5.18,page no-27, PWD SR 2019-20.								
	Double door, 12Way SP &N	each	1					1800	**1800**
27	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, item no-6.4.2, page no-40, PWD SR 2019-20.								
	4 core 10 sqmm	Rm	50					130	**6500**
28	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150 mm all-round the cable item 6.7,page no- 41 SR 2018-19.								
		Mtr	45					100	**4500**
29	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen/ insulating compound complete with terminals,lamps, bolts, nuts and washers etc. item 6.10.5,page no- 42SR 2018-19.								
	50 sqmm	each	1					618	**618**
								Sub total	**100944**
								12%GST	**12113**
								Sub Total	**113057.28**
								Grand Total Sub-1 & Sub-2	**3814521**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20, SE-RDED approved Rate and Issued Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Bruhat Bengaluru Mahanagara Palike

Name of Work: Construction of Sculptures in Parks, Lakes, Circles and Junctions in ward No.01, 02, 03 and 04 of Yelahanka Sub Division

Sub estimate 9: Estimate for Civil Works for Globe at Chandra Cafe

S.No.	Description of Work /Specification	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 Note :Adopt item 2.24 for excavation in all types of soils for lowering & levelling the ground for building works by mechanical means KBS Pg No 6, Item No 2.1								
1	**Earthwork Excavation**								
	Below ground Level	Cum	1	3.9	3.9	1.1	16.73		
	All-Around Platform arc length 6.2, length 4+ 10 = 20.20 M	Cum	1	20.2	0.2	0.2	0.81		
	Basic rate							249.00	
	Area weightage 6%							14.94	
	Total						**17.54**	**263.94**	**4629**
	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100 mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
2	Soling Below ground Level	Cum	1	3.6	3.6	0.2	2.59		
	Basic rate							2429.00	
	Area weightage 6%							145.74	
	Total						2.59	**2574.74**	**6674**
	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	PCC								
3	Below ground Level	Cum	1	3.3	3.3	0.15	1.63		
	Laying of Granite	Cum	1	14.6		0.15	2.19		
	All-Around Platform arc length 6.2, length 4+ 10 = 20.20 M	Cum	1	20.2	0.2	0.15	0.61		
	Basic rate							5102.0	
	Area weightage 6%							306.1	
	Total						**4.43**	**5408.12**	**23955**
	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14 Item No. 4.11								
4	For Platform for dia 1.5 m	Cum	1	3	3	2.5	22.50		
	Basic rate							5659.0	
	Area weightage 6%							339.5	
	Total						**22.50**	**5998.54**	**134967**
	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - Pg No. 18 TMT bars Fe 500								
5	Considering 70 kg/Cum of concrete	tonne	1	22.50			1.58		
	Basic rate							70966	
	Area weightage 6%							4258	
	Total						**1.58**	**75224**	**118478**
	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., Removal of form Work etc.., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.5, Pg No 16,Item No 4.32								

6	For all round Platform	sqm	1	12		2.25	27.00		
	Basic rate							456.0	
	Area weightage 6%							27.4	
	Total						**27.00**	**483.36**	**13051**
7	14.58. Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS 14.58 , Pg No 111,Item No 14.58								
	For all round Platform-Vertical Cladding	Sqm	1	12		2.25	27.00		
	Top Platform-Horizontal Cladding	Sqm	1	3	3		9.00		
	All-around plat-form top	Sqm	1	20.2	0.2		4.04		
								3474	
	Area weightage 6%							208.4	
	Total						**40.04**	**3682.44**	**147445**
8	14.55, Providing full nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification KBS No.14.55, Pg No.111								
	For all round Platform	Rm	1	12			12.00		
	For Vertical Cladding- four corners	Rm	4	1.5			6.00		
								270	
	Area weightage 6%							16.2	
	Total						**18.00**	**286.20**	**5152**
9	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications.. Pg No. 45 Item No. 7.38								
	All-Around Plat-form arc length 6.2, length 4+ 10 = 20.20 M	Sqm	1	20.2	1.2		24.24		
								6021	
	Area weightage 6%							361.3	
	Total						24.24	**6382.26**	**154706**
10	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400 X 200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.14, Pg No. 27 Item No. 5.26.1								
	All-Around the sculpture	Sqm	1	20.2		0.6	12.12		
	Basic rate							912.0	
	Area weightage 6%							54.7	
	Total						**12.12**	**966.7**	**11717**
11	KBS 14.47.1 Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200mm Specification No. KBS 14.47.1 Pg No.109								
	For all round Platform-safety	Sqm	1		14.6		14.60		
		Sqm	2	20.20		0.40	16.16	2739	
	Area weightage 6%							164.3	
	Total						30.76	**2903.34**	**89307**
								Sub Total Amount	**710080**
								ADD 12% GST	**85210**
								Grand Total	**795289**

Sl. No.	Description	Unit	Nos	L	B	D	Quantity	Rate	Amount (Rs)
	Electrical Works (Lighting)								